

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/088,917	03/25/2002	Hidetatsu Murakami	1155-0246P	2681	
2292	2292 7590 12/22/2003			EXAMINER	
	WART KOLASCH &	LEE, RIP A			
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER	
			1713		

DATE MAILED: 12/22/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Ap, ant(s)			
		10/088,917	MURAKAMI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Rip A. Lee	1713			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE I - Exter after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on <u>01 O</u>	ctober 2003.				
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.				
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)⊠	 Claim(s) 23-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 24,25 and 42-44 is/are allowed. Claim(s) 23 and 39-41 is/are rejected. Claim(s) 26-38 is/are objected to. Claim(s) are subject to restriction and/or election requirement. 					
	on Papers	o olocion roquirollicini.				
9) 10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the e Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the Ideas of the	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
	nder 35 U.S.C. §§ 119 and 120					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 						
Attachment	(s)					
1) 🔀 Notice 2) 🔲 Notice 3) 🔲 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)			

DETAILED ACTION

This office action follows a response filed on October 1, 2003. Applicants have canceled

all previous claims (1-22). New claims 23-44 have been added. Independent claims 23, 24, 25,

42, 43, and 44 contain subject matter deemed allowable in the previous office action.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the

subject matter which the applicant regards as his invention.

2. Claim 23 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

A broad range or limitation together with a narrow range or limitation that falls within the

broad range or limitation (in the same claim) is considered indefinite, since the resulting claim

does not clearly set forth the metes and bounds of the patent protection desired.

Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte

Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is

followed by "such as" and then narrow language. The Board stated that this can render a claim

indefinite by raising a question or doubt as to whether the feature introduced by such language is

(a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required

feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131

USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche,

86 USPQ 481 (Bd. App. 1949).

Application/Control Number: 10/088,917 Page 3

Art Unit: 1713

The claim is drawn to a copolymer whose melt index (MI2) lies in the range of 0.0001 to 1000 g/10 min. The vinyl group content and the vinylidene group content in the copolymer are related to MI2 by the following equations shown below.

vinyl $\leq 0.018038 + 0.003259 \log(MI2)$

vinylidene $\leq 0.018038 + 0.003259 \log(MI2)$

Present claim 23 was amended to include the limitation of previous claim 2. Here, the vinyl group content and the vinylidene group content in the copolymer are related to MI2 by the equations shown below.

vinyl $\leq 0.004509 + 0.000815 \log(MI2)$

vinylidene $\leq 0.013528 + 0.002445 \log(MI2)$

These equations define a narrower range of possible values for vinyl and vinylidene group content. Therefore, claim 23 should have been amended to recite the latter set of equations only with deletion of the former set of equations.

3. Claims 39-41 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. There is insufficient antecedent basis for "the thermoplastic" in the claim.

Application/Control Number: 10/088,917 Page 4

Art Unit: 1713

Claim Objections

4. Claim 32 is objected to because of the following informalities: The claim recites "η" in

an equation without defining the term. As such, the meaning of the claim is not clear.

Appropriate correction is required.

Allowable Subject Matter

5. Claims 24, 25, and 42-44 are allowed.

6. Claims 26-38 are objected to as being dependent upon a rejected base claim, but would

be allowable if rewritten in independent form including all of the limitations of the base claim

and any intervening claims.

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Application/Control Number: 10/088,917

Art Unit: 1713

The prior art made of record but not relied upon is considered pertinent to the Applicant's

Page 5

disclosure. The following references relate to ethylene copolymers with defined vinyl group

content and vinylidene group content.

U.S. 2003/0008997

EP 1 264 848

JP 11-106429

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Rip A. Lee whose telephone number is (703)306-0094. The

examiner can be reached on Monday through Friday from 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu, can be reached at (703)308-2450. The fax phone number for the

organization where this application or proceeding is assigned is (703)746-7064. Any inquiry of

a general nature or relating to the status of this application or proceeding should be directed to

the receptionist whose telephone number is (703)308-0661.

ral

December 18, 2003

DAVID W. WU SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1700